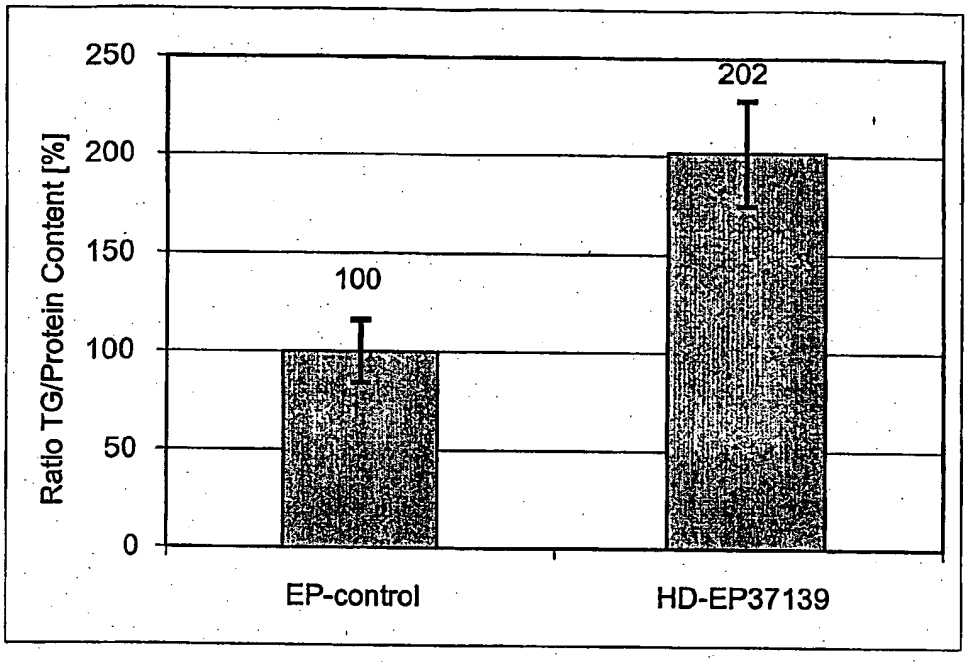
Figure 1. Triglyceride content of a Drosophila CG7042 (GadFly Accession Number CG7042-PA) mutant



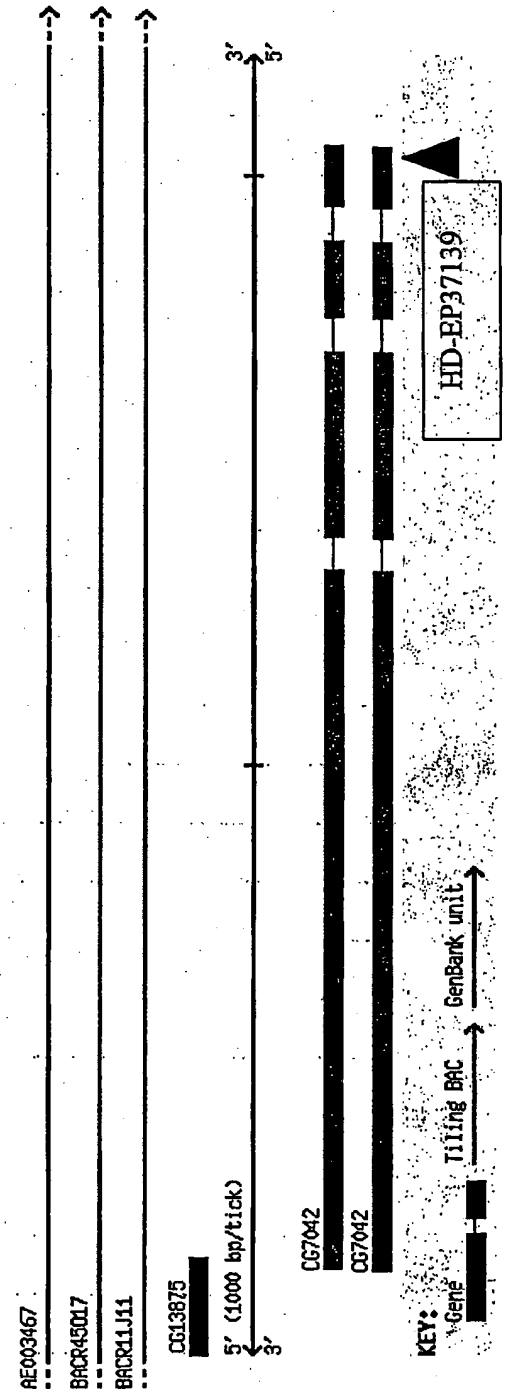
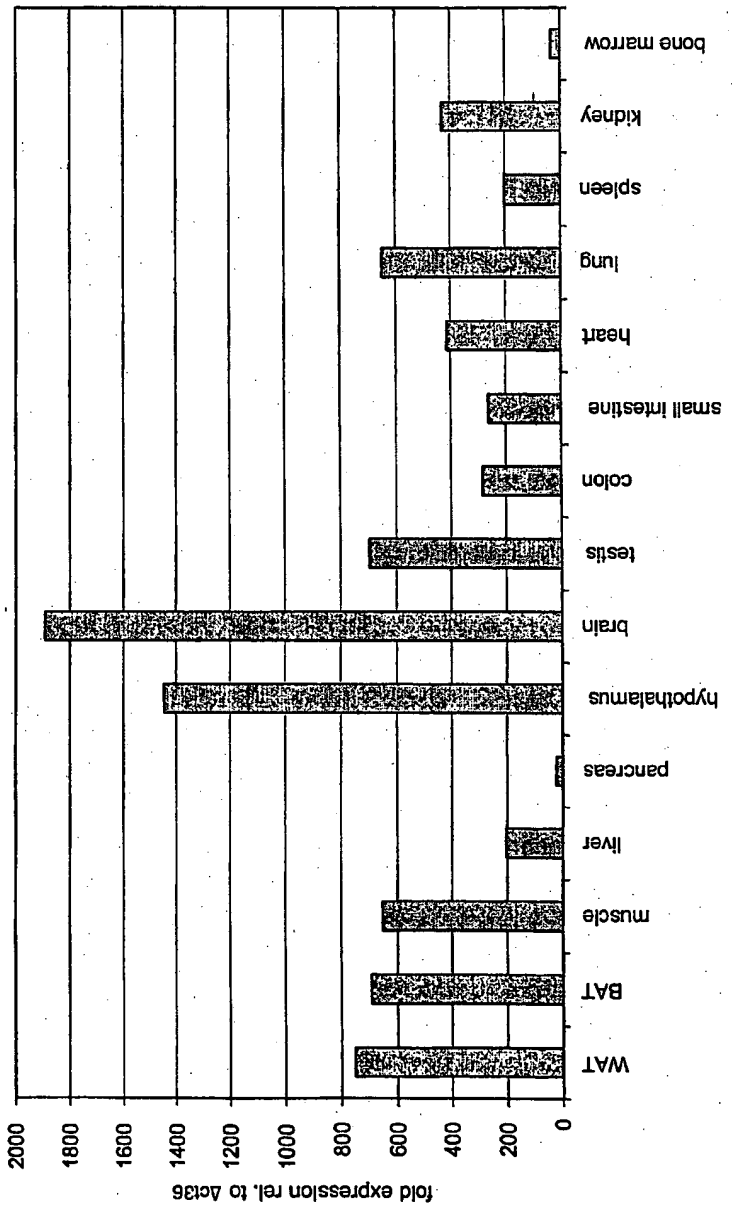


Figure 2. Molecular organization of the CG7042 gene (GadFly Accession Number CG7042-PA)

Figure 3. Expression of the CG7042 (GadFly Accession Number) Homolog in Mammalian Tissues

Figure 3A. Real-time PCR analysis of protein similar to DUAL-SPECIFICITY PHOSPHATASE TS-DSP1 (TS-DSP1) expression in wild type mouse tissues



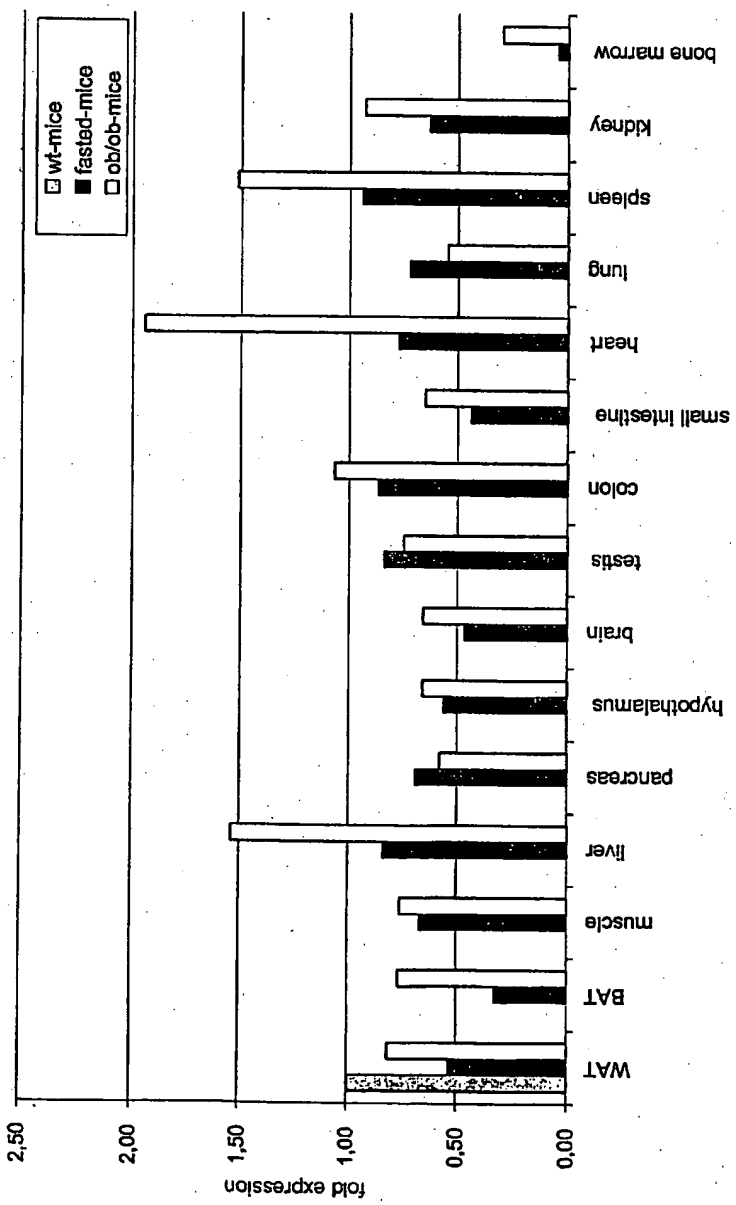


Figure 3B. Real-time PCR analysis of TS-DSP1 expression in different mouse models

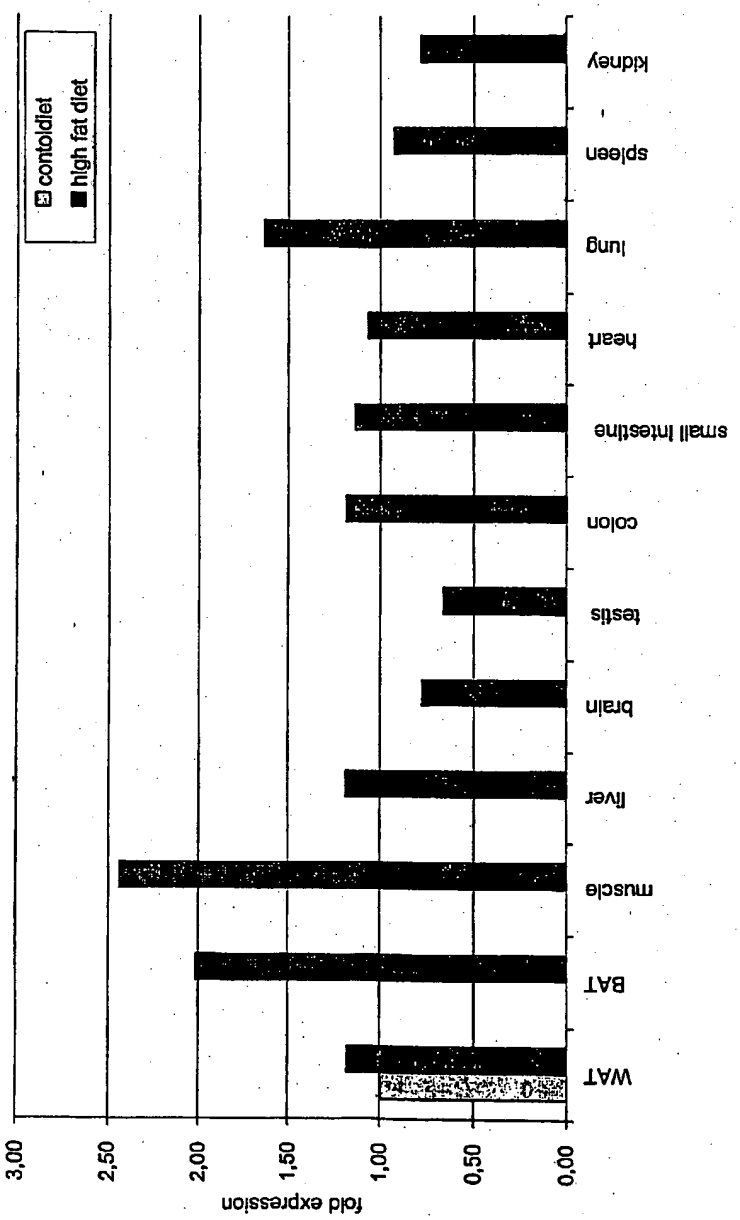


Figure 3C. Real-time PCR analysis of TS-DSP1 expression in mice fed with a high fat diet compared to mice fed with a control diet

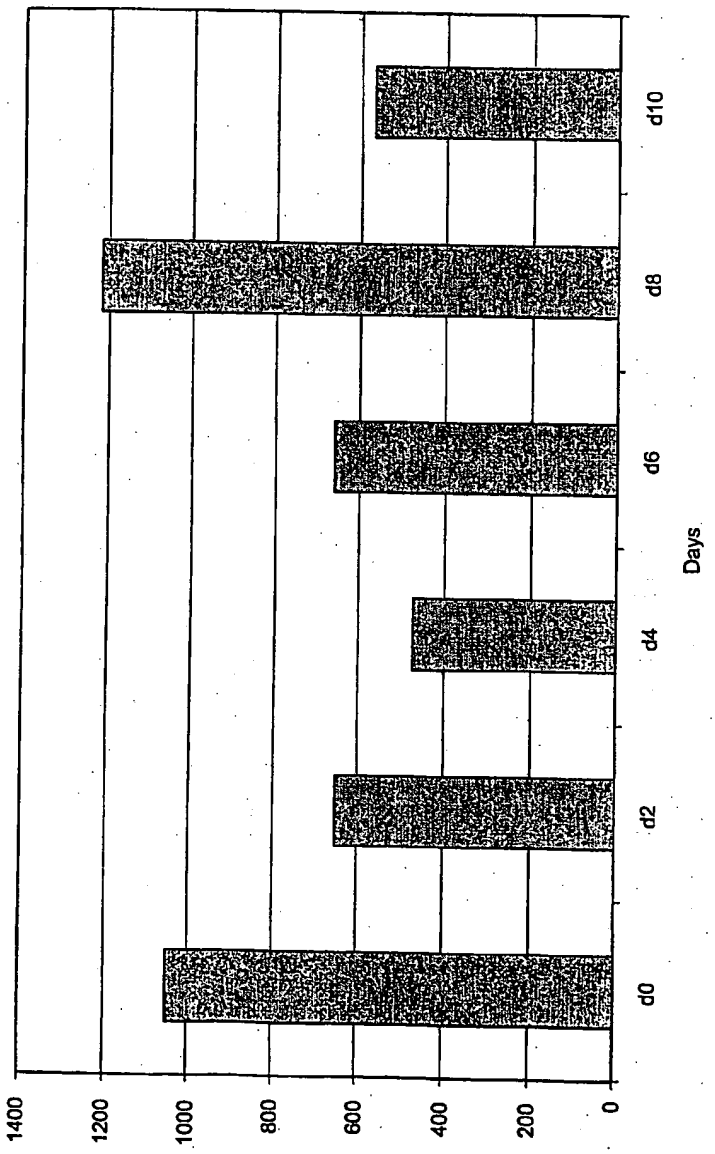
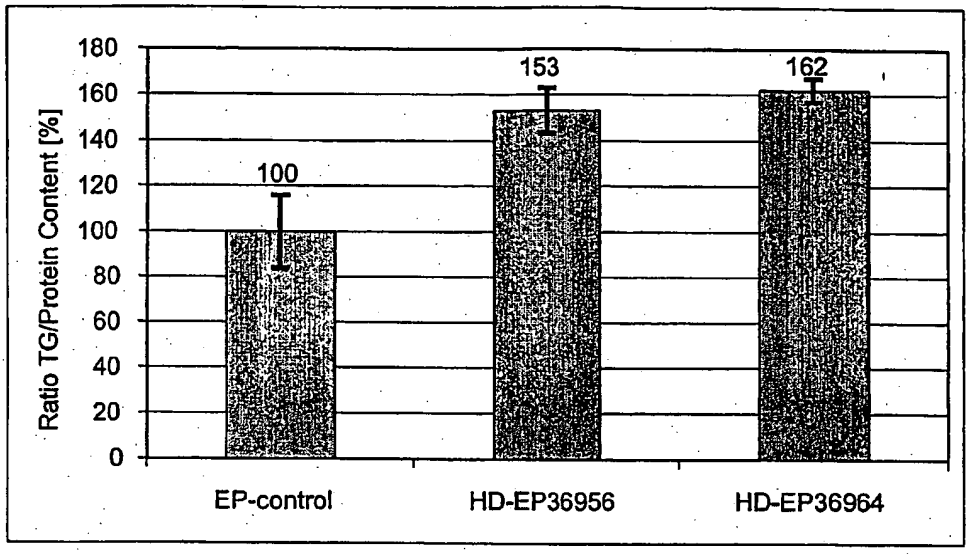


Figure 3D. Real-time PCR analysis of TS-DSP1 expression in 3T3-L1 cells differentiated from preadipocytes to mature adipocytes

Figure 4. Triglyceride content of a Drosophila *astray* (GadFly Accession Number CG3705) mutant



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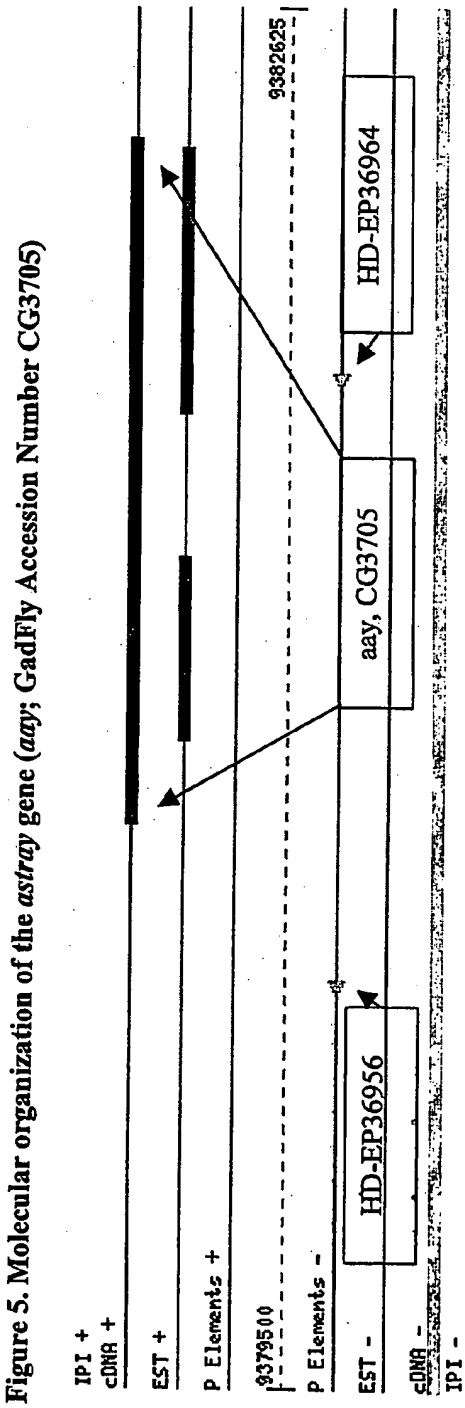

Figure 5. Molecular organization of the *astray* gene (*aay*; GadFly Accession Number CG3705)

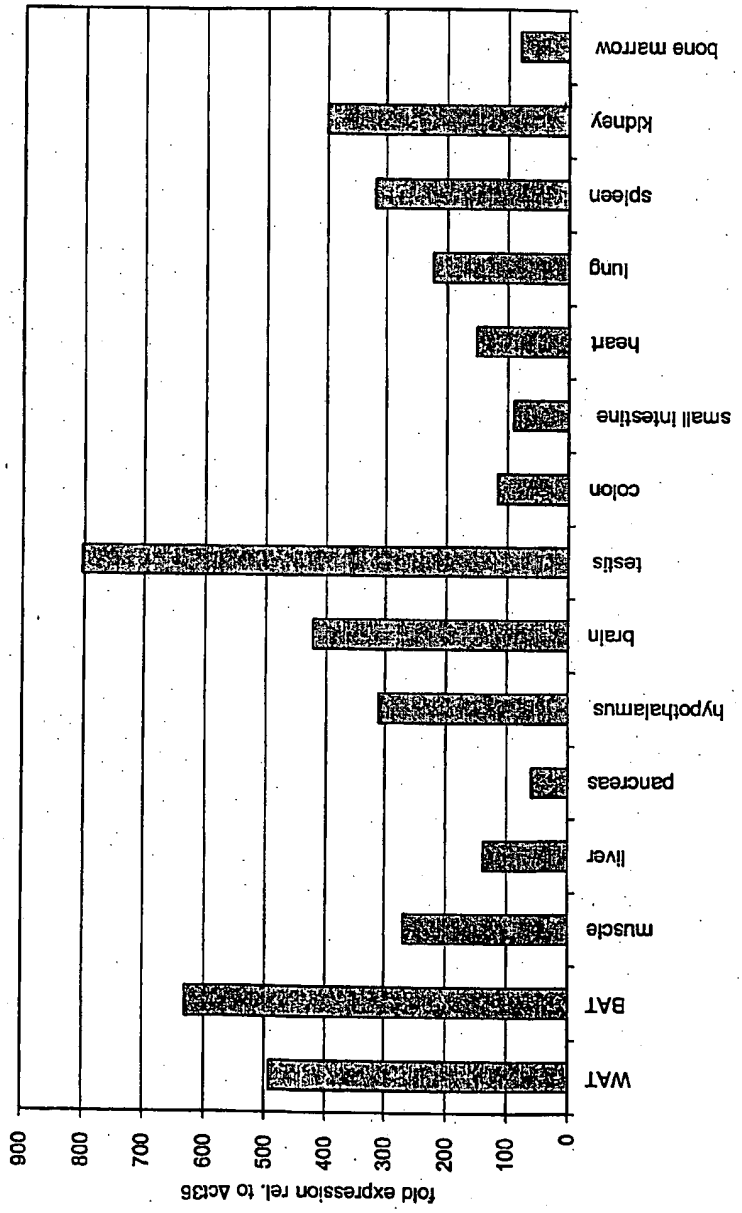

Figure 6. Expression of the *astray* Homolog in Mammalian Tissues

Figure 6A. Real-time PCR analysis of phosphoserine phosphatase (Psph) expression in wild type mouse tissues

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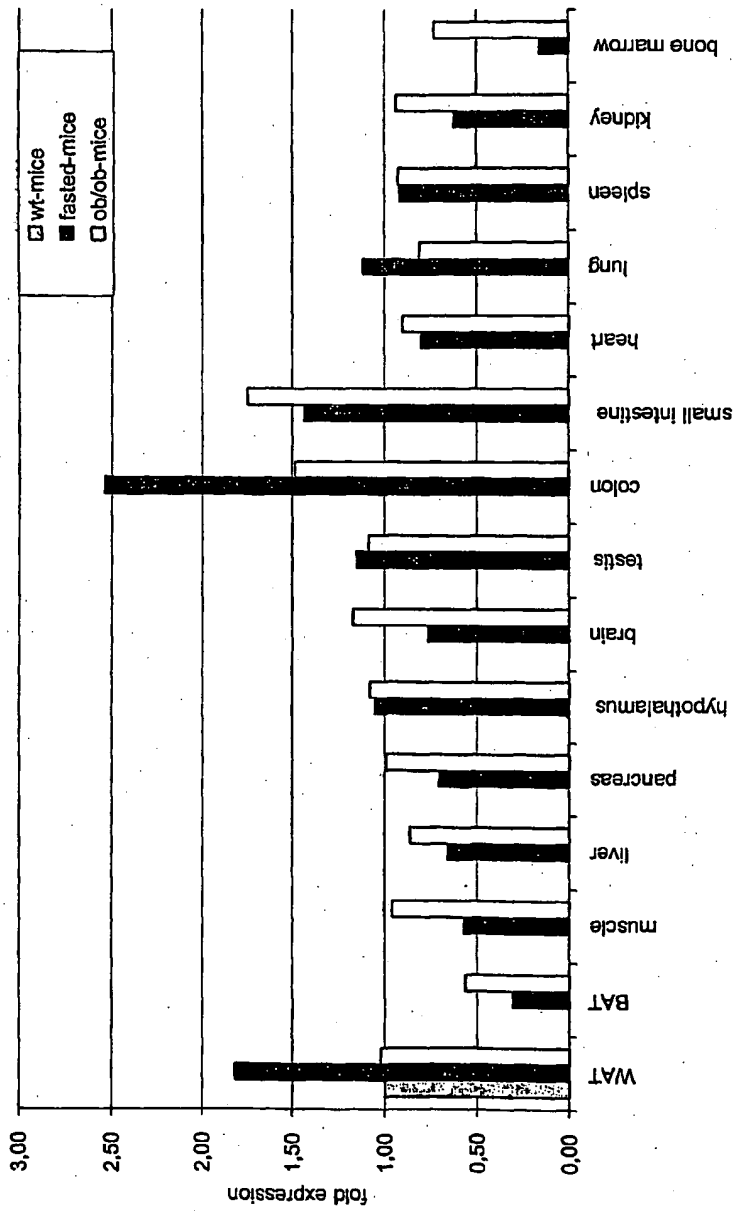


Figure 6B. Real-time PCR analysis of Psph expression in different mouse models

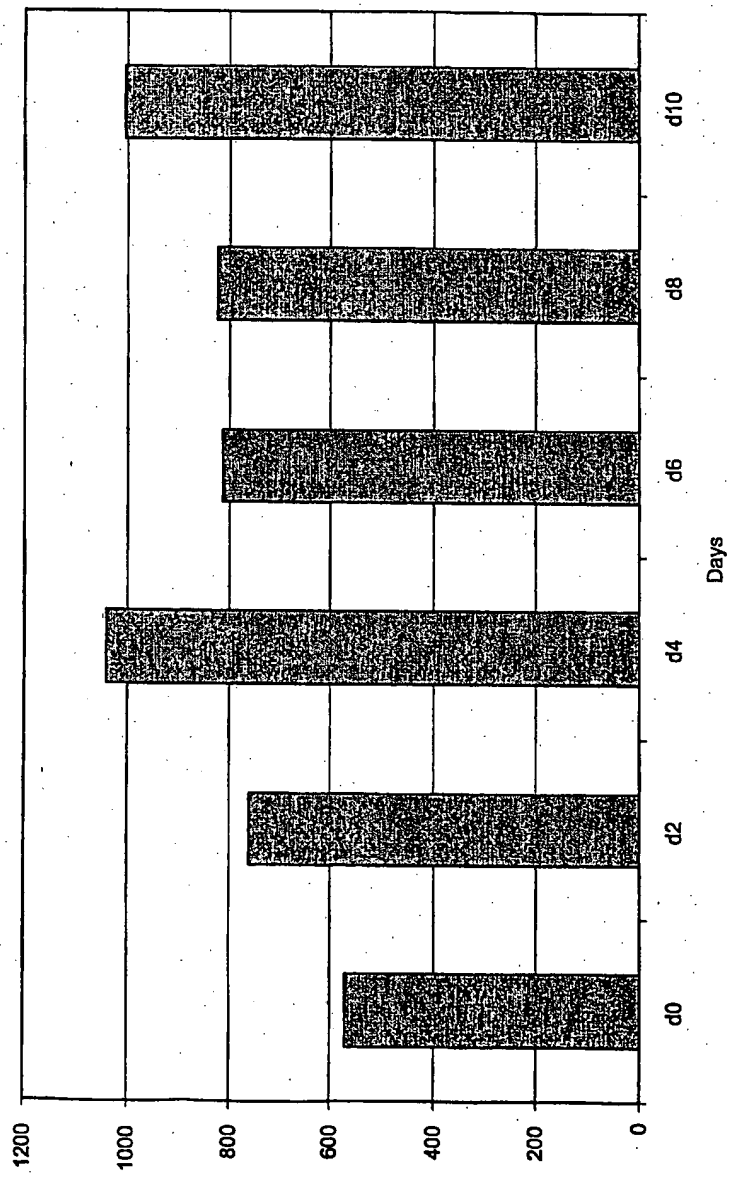


Figure 6C. Real-time PCR analysis of Psph expression in 3T3-L1 cells differentiated from preadipocytes to mature adipocytes

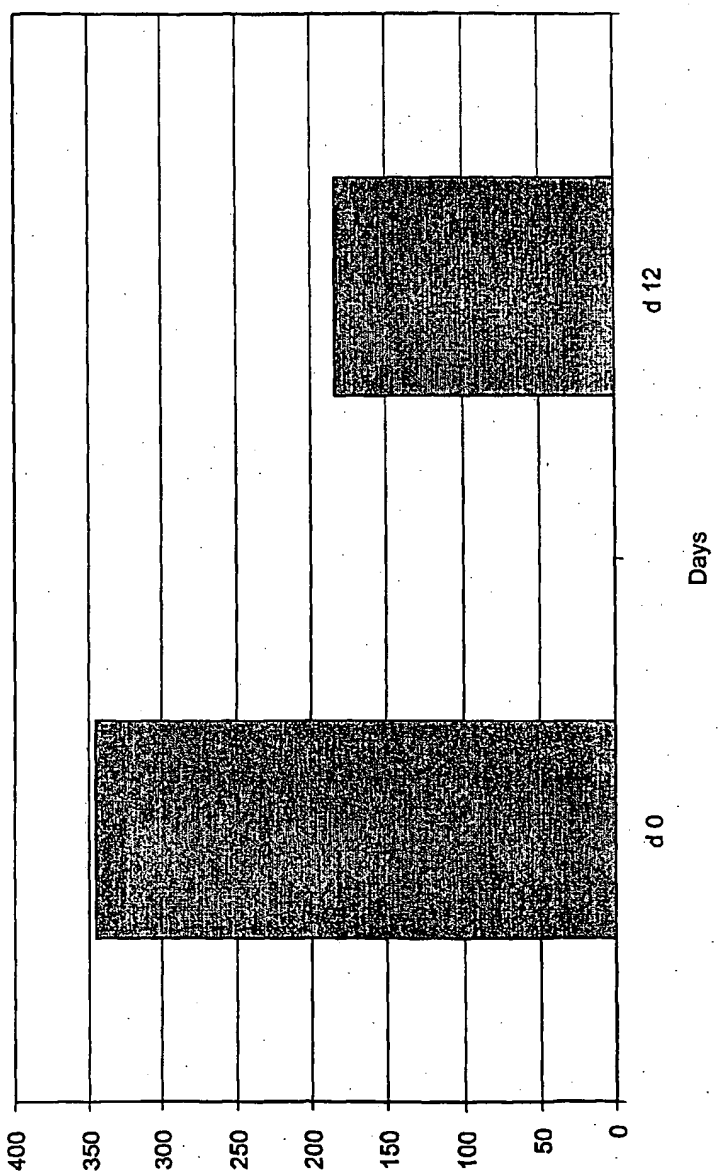
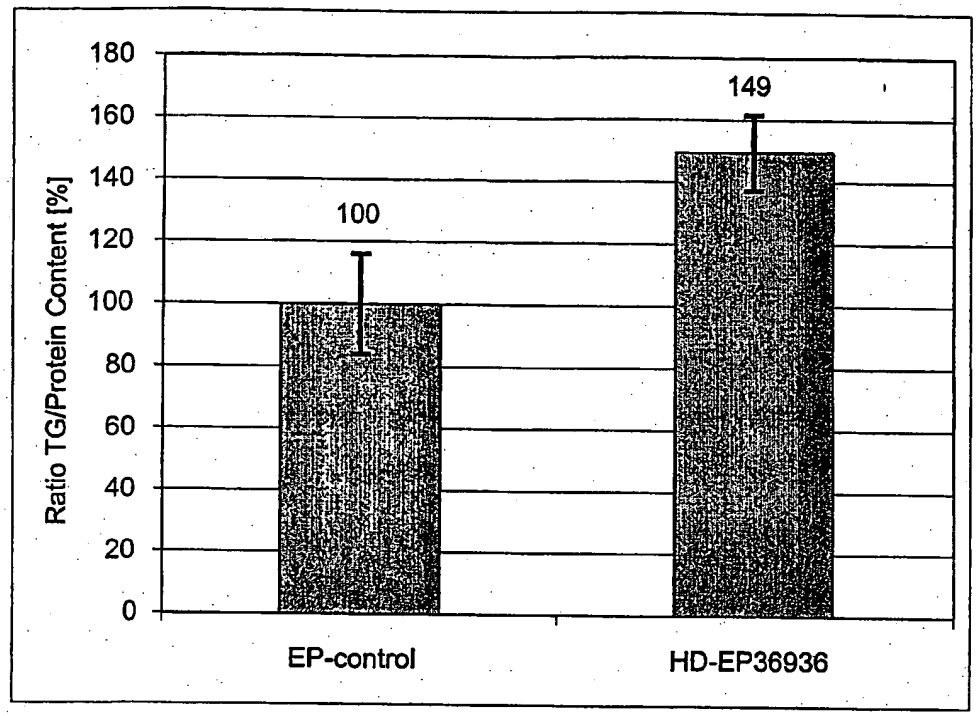


Figure 7. Expression of the human *astray* homolog in mammalian (human) tissue. Microarray analysis of phosphoserine phosphatase (PSPH) expression in human adipocyte cells during the differentiation from preadipocytes to mature adipocytes

Figure 8. Triglyceride content of a Drosophila *string* (GadFly Accession Number CG1395) mutant



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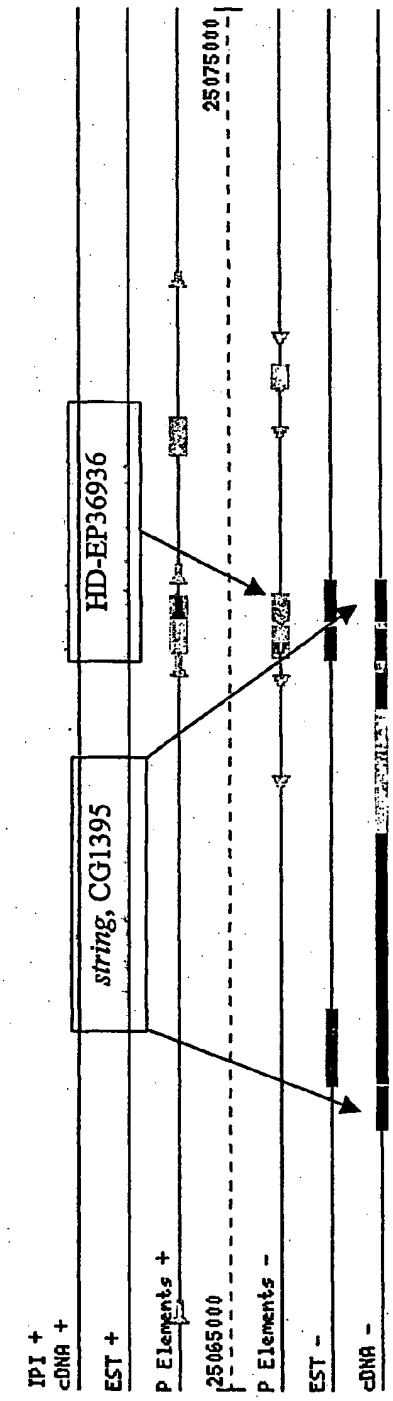


Figure 9. Molecular organization of the *string* gene (GadFly Accession Number CG1395)

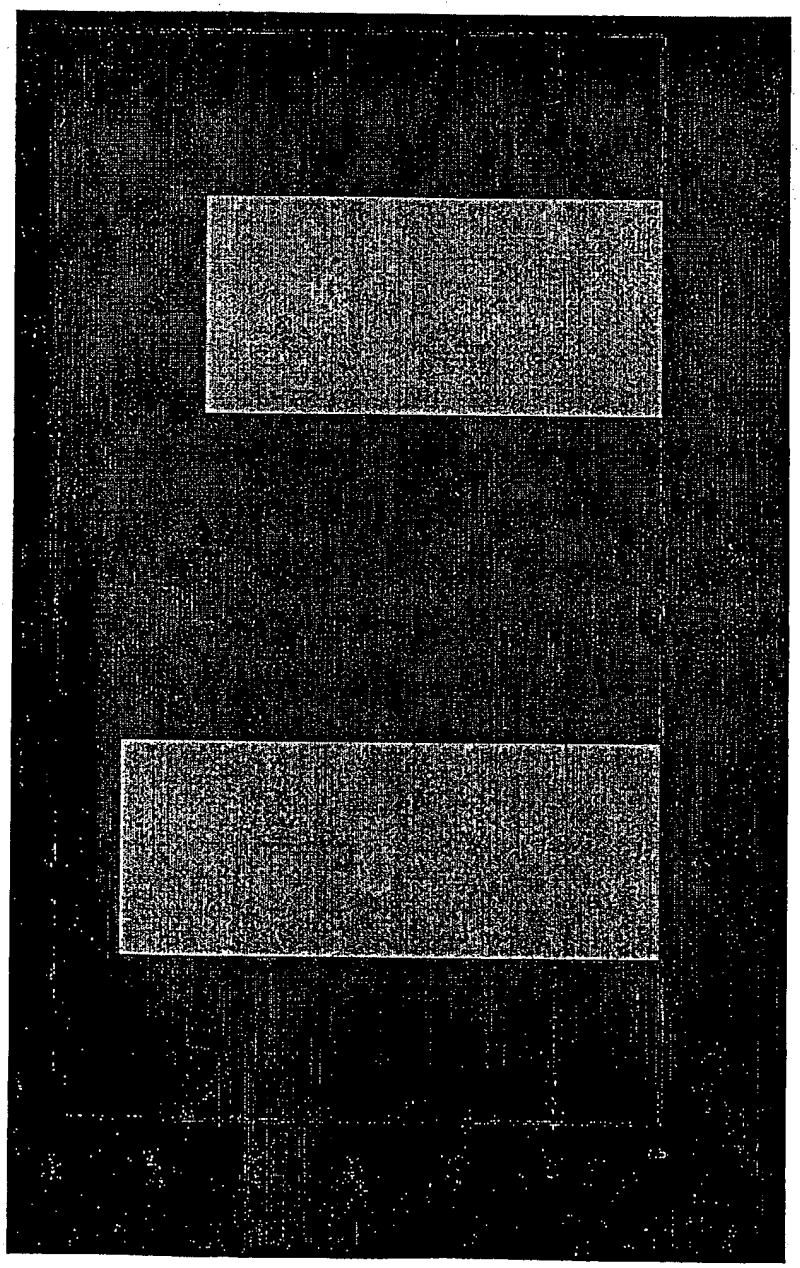
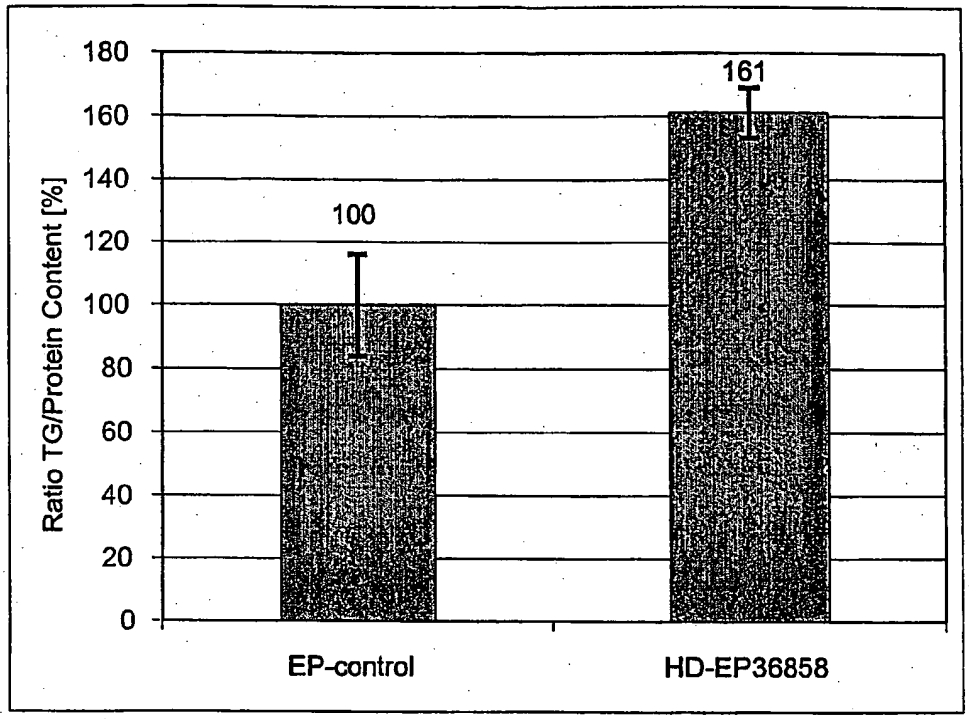


Figure 10. Expression of a human *string* homolog in mammalian (human) tissue. Microarray analysis of cell division cycle 25B (CDC25B) expression in human adipocyte cells during the differentiation from preadipocytes to mature adipocytes

Figure 11. Triglyceride content of a Drosophila CG1401 (GadFly Accession Number) mutant



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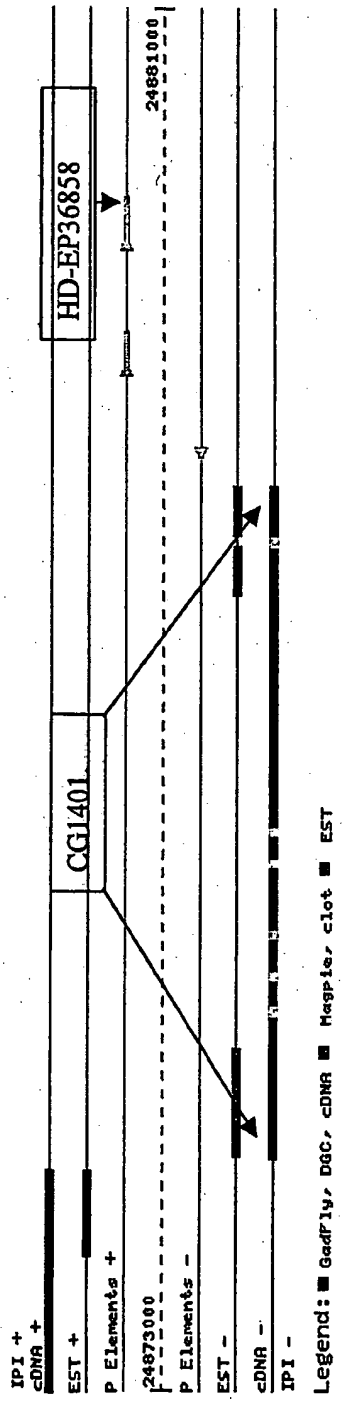

Figure 12. Molecular organization of the CG1401 gene (GadFly Accession Number)

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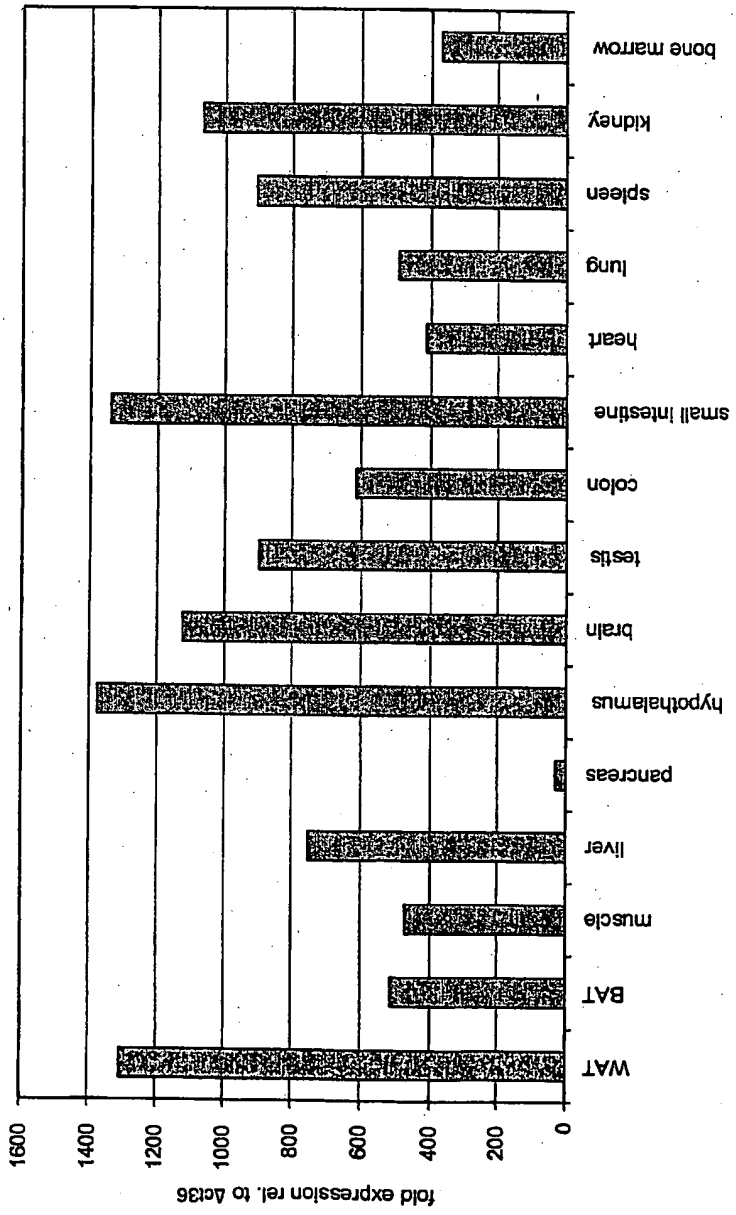
Figure 13. Expression of CG1401 (GadFly Accession Number) Homologs in Mammalian Tissues

Figure 13A. Real-time PCR analysis of RIKEN cDNA 4921514I20 gene (4921514I20Rik) expression in wild type mouse tissues



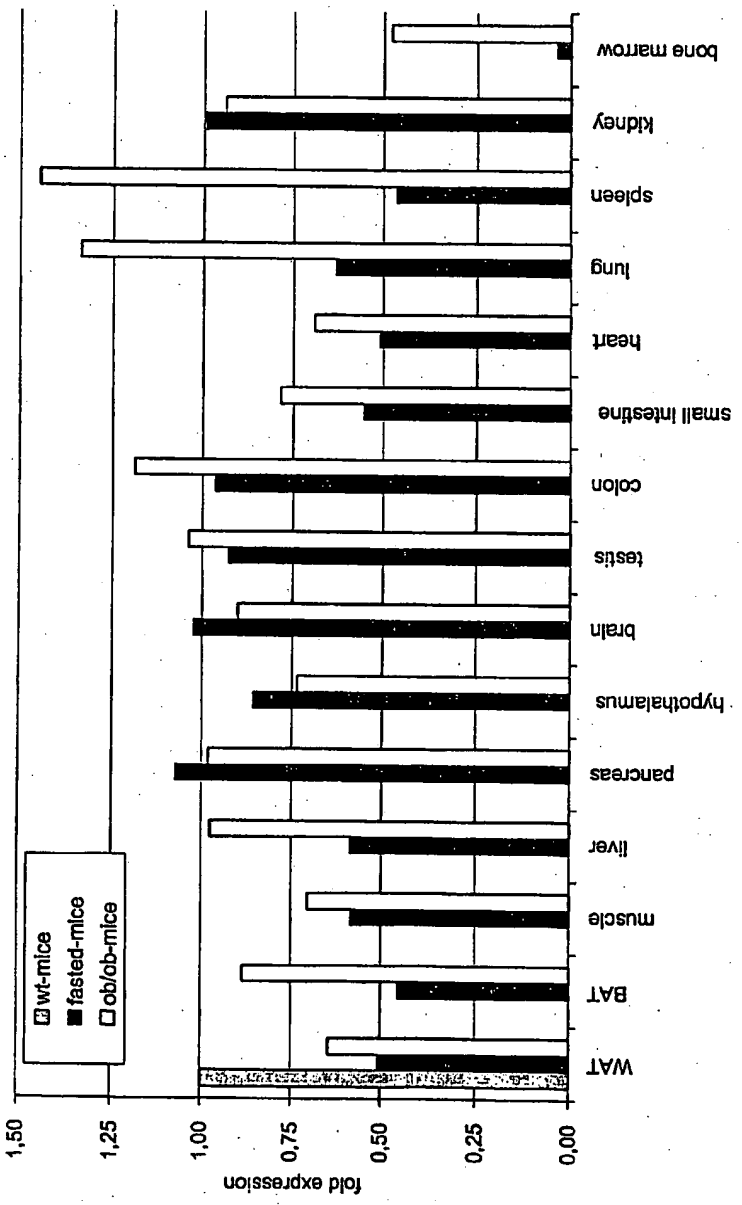


Figure 13B. Real-time PCR analysis of 4921514I20Rik expression in different mouse models

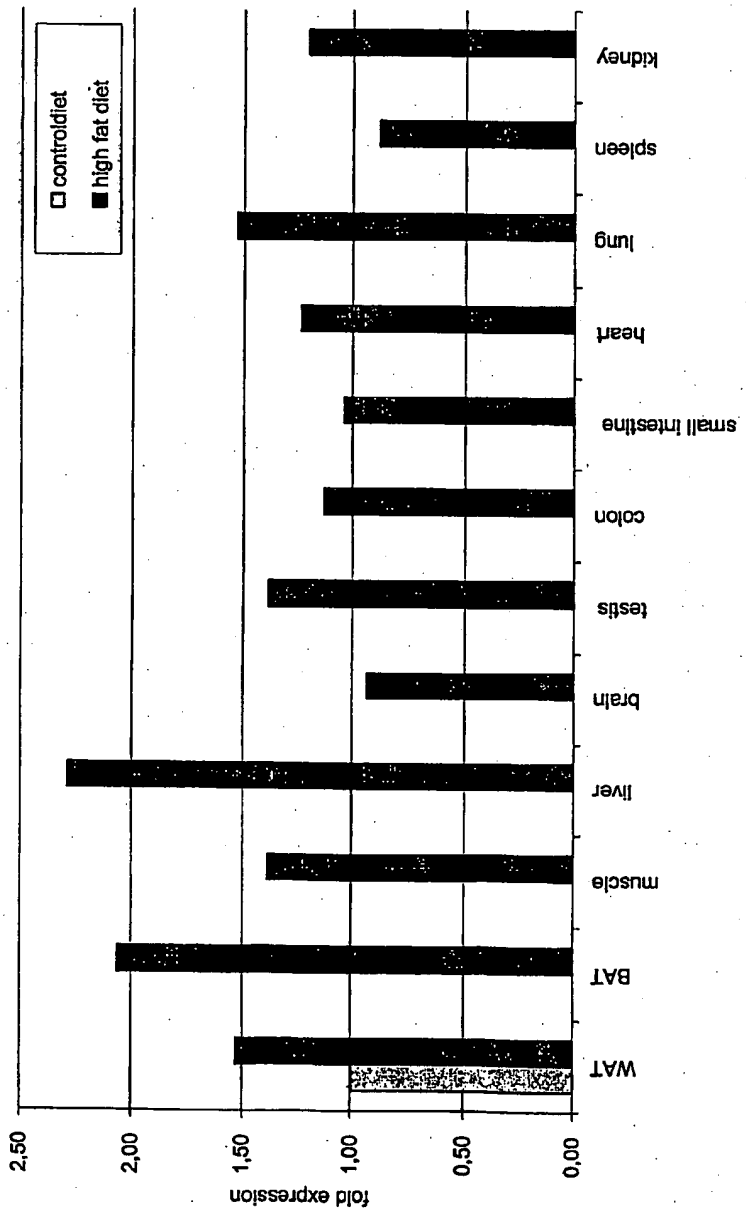


Figure 13C. Real-time PCR analysis of 4921514I20Rik expression in mice fed with a high fat diet compared to mice fed with a control diet

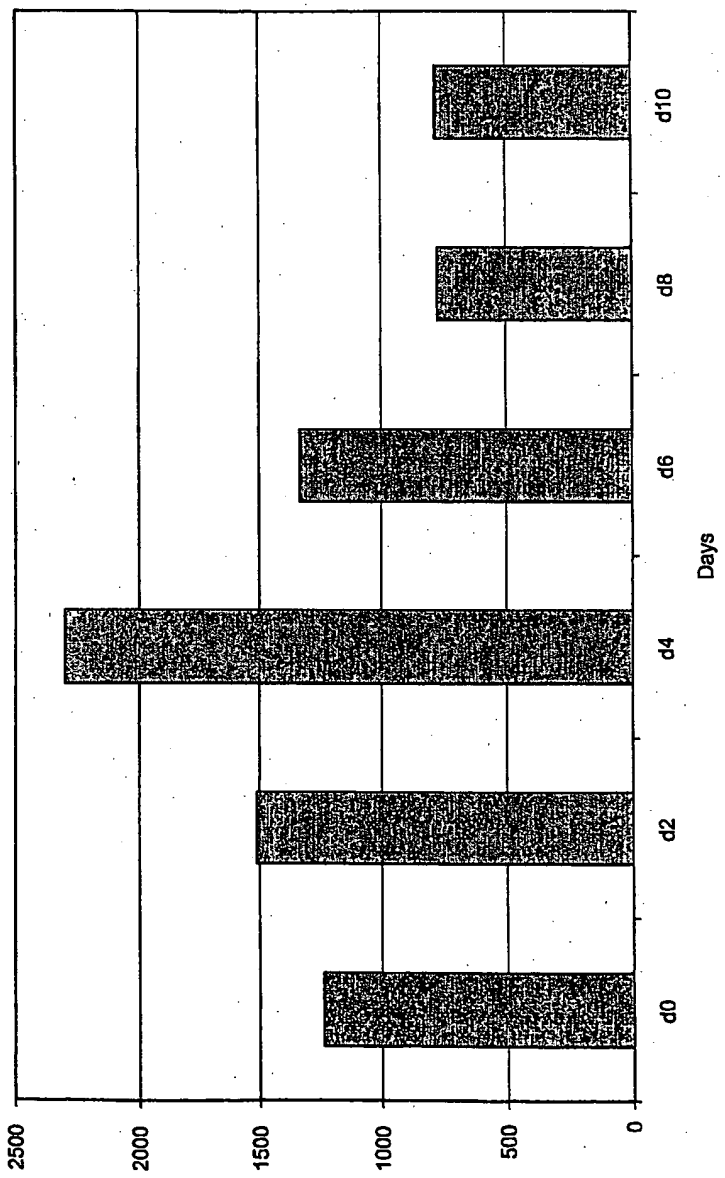


Figure 13D. Real-time PCR analysis of 4921514I20Rik expression in 3T3-L1 cells differentiated from preadipocytes to mature adipocytes

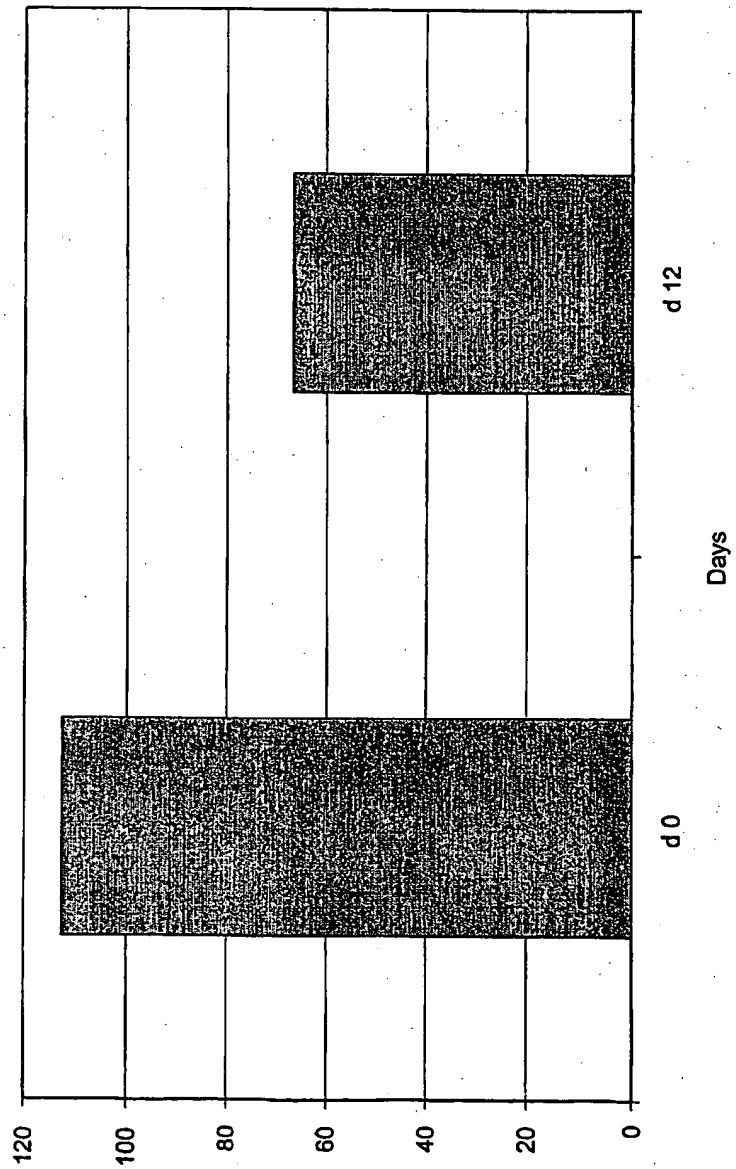


Figure 14. Expression of the human CG1401 homolog in mammalian (human) tissue. Microarray analysis of cullin 5 (CUL5) expression in human adipocyte cells during the differentiation from preadipocytes to mature adipocytes